Recombinant RM37 protein (His tag)

Catalog Number	549908
Synonyms	39S ribosomal protein L2, mitochondrial; L2mt; MRP-L2; 39S ribosomal protein L37, mitochondrial; L37mt; MRP-L37
Species	Human
Expression System	E. coli
Accession	Q9BZE1
Molecular Weight	Predictes a molecular mass of 46.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	31-423
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 31-423 aa (Q9BZE1) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant human Large ribosomal subunit protein mL37 (MRPL37) fragment (residues 31-423) is a high-quality, stable protein designed for structural and biochemical studies. This 393-amino acid fragment was computationally optimized for solubility and stability, making it an ideal tool for investigating mitochondrial ribosome function and related research applications. The full-length Large ribosomal subunit protein mL37, also known as MRPL37, is a mitochondrial ribosomal protein that localizes to the mitochondrion, as confirmed by multiple experimental studies. As a component of the mitochondrial ribosome, this protein plays an essential role in mitochondrial protein synthesis, which is critical for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like MRPL37 are fundamental to maintaining mitochondrial function and cellular metabolism.